



ST. XAVIER'S COLLEGE, MAPUSA GOA

College with Potential for Excellence
Re accredited by NAAC with A Grade
Awarded DBT STAR College Scheme

Nature of Event (Workshop, Guest Lecture, Add-on Course, Seminar, etc.)	Field Trip
Name of Department	Biotechnology
Faculty In-Charge	Ms. Jocelyn Fernandes, Ms. Swaroopa Naik.
Stratum of Event (College, State, Regional, National)	State
Title of Event	Sewage Treatment Plant
Date of Event	29 th September 2023
Venue	Sewage Treatment Plant, Tonca, Panaji, Goa
Objective/ Scope of Event	To familiarize students with the working and processing of sewage treatment plant.
Particulars of Event	The F.Y.B.Sc Biotechnology class accompanied by Ms. Swaroopa Naik visited the sewage treatment plant in Tonca Goa. The guide for the day, Mr. Nikhil Sawant, an engineer at sewage treatment plant showed the site of raw sewage intake area where sewage from Taleigao & the outskirts of Panaji first gets collected in the dump where it is screened & then pumped for primary treatment. Primary treatment involves the removal of soil, sand, grit, oil & grease. For this purpose, the sewage is passed through fine screens followed by sedimentation chamber where heavy particles settle down and then to oil & grease removal chambers where the top 2cm of water is removed. This is followed by the secondary treatment. The STP contains two secondary treatment tanks. The primary effluent is pumped into these tanks and then aeration is carried out with the help of blowers for the growth of aerobic microorganisms in one tank. In the other tank, flocs settle down and are decanted as clean water rises. The water is then chlorinated and discharged into the Mandovi river. The activated sludge on the other hand is pumped out, collected, and dried in centrifuge and sold as manure. Toward the end, Mr. Sawant explained the difference recorded in the parameters of sewage water and chlorinated water.
Outcome of Event	Students acquired in depth knowledge of the steps involved in sewage treatment and its appropriate disposal into the environment.

Feedback	The field trip was enriching, informative and provided a valuable insight in treating sewage wastes and their safe disposal into the environment, wherein the students witnessed what they learnt in theory come alive.
Total No. of Participants	23



